## ER PROGRAM DATA ASSESSMENT SUMMARY REPORT FORM

Data	L No. 90071 171		Site 881 Hillside
	ch No. 8907L171	onvilla	No. of Samples/Matrix 11/Water
	oratory <u>Roy F. Weston - Li</u> V # <u>10/86 (Rev. 2/88)</u>	DIIVING	Reviewer Org. TechLaw, Inc.
Sam G06	ple Numbers G028707890	02, GTB072689 , G59860789002	2, G48870789002, GTB072689002 (AH8713), H072689001,
		Data As	ssessment Summary
		VOA	Comments
1.	Holding Times	A	Action Item 1
2.	GC/MS Tune/Instr. Perf.	V	
3.	Calibrations	A	Action Items 2,3,4,5; Comment 1
4.	Blanks	A	Action Item 6; Comments 2,6
5.	Surrogates	A	Action Item 7
6.	Matrix Spike/Dup.	X	Comments 3,4
7.	Other QC	X	Comment 10
8.	Internal Standards	V	
9.	Compound Identification	X	Comments 5,8,11
10.	System Performance	X	<u>Comments 7,9,12</u>
11.	Overall Assessment	A	Data acceptable with qualifications.
	<ul> <li>V = Data had no problems.</li> <li>A = Data acceptable but qualified due to</li> <li>R = Data rejected.</li> <li>X = Problems, but do not affect data.</li> </ul>	problems.	
Data	a Quality: Data contained in this	s batch were review	ved and found to be acceptable with qualifications. Acceptable,
quali	fied data may be used provided tha	t individual values	impacted by the "Action Items" listed below are appropriately flagged.
(Refe	er to attached Results Summary Tal	oles.)	ADMIN RECORD
	By R. B. F	CLASSIFICATION offman CO CLASSIFICATION	REVIEWED FOR CLASSIFICATION/UCNI  By Severce H. Setlock  G /28/90  A-CUCI-OCC81

Action Items: 1) Non-detected results for the aromatic compounds are estimated and undetected (UJ) in all
samples except G02870789002, G04670789002, G06870789002 and the positive Toluene result in sample
GS4870789002RE is estimated (J) because holding time exceeded seven days.
2) 2-Butanone and 4-Methyl-2-pentanone had Relative Response Factors (RRFs) less than 0.05 in all
calibrations. Non-detected results are rejected (R) for all samples.
3) Acetone had a %RSD greater than 30% in the initial calibration and a %D exceeding 50% in the 8/4/89
continuing calibration. The positive Acetone result in G04670789002 is estimated (J) and all other positive
Acetone results were qualified pursuant to method blank criteria. See Action Item 6.
4) The RRF50 for 2-Hexanone was less than 0.05 in the 8/7/89 continuing calibration. The non-detect
2-Hexanone results are rejected (R) for samples GTB072689002 (AH8708), GTB072689002 (AH8713),
G59860789002, G59860789002RE, G48870789002, G48870789002RE, H072689001, G53870789002, and
GS4870789002RE.
5) Tetrachloroethene exceeded the %D criteria in the 8/2/89 continuing calibration. The positive
Tetrachloroethene result in sample G04670789002 is estimated (J).
6) As a result of blank contamination, the positive results for Acetone and Methylene Chloride in all samples
except G04670789002 and the positive result for Carbon Disulfide in sample G02870789002 are estimated and
undetected (UJ). The positive Methylene Chloride and Acetone results in sample G04670789002 exceeded the
action limits (10x blank value) and the results are estimated (J) due to other QC problems.
7) No sample analyses had all surrogate recoveries within criteria. All results, except those previously
rejected, are estimated (J) or estimated and undetected (UJ).
Comments: 1) Numerous compounds had %Ds greater than 25% in all continuing calibrations. Data was not
qualified since these compounds were undetected in the affected samples.
2) Method blank VBLK138 was contaminated with Styrene and Xylenes (total). Data was not qualified since
these compounds were undetected in the affected samples.
3) Matrix Spike and Matrix Spike Duplicate (MS/MSD) analyses were conducted using a trip blank which is
not representative of sample matrix.

Comments: (cont) 4) Three compounds exceeded the %Recovery criteria in both	the MS and MSD samples.
Data was not qualified.	
5) Tentatively Identified Compounds (TICs) were present in samples GTB0726890	002 (AH8708),
G59860789002, G48870789002, H072689001, G53870789002, GTB072689002 (AH8	713), G04670789002, and
G06870789002.	
6) The method blanks reported the presence of semivolatile target compounds (i.e.	: Dichlorobenzene) as TICs.
The solvent Hexane was also found in some of the blanks.	
7) Many of the chromatograms for the samples and the calibrations had raised base	elines within the
approximate retention time of 1-5 minutes.	
8) The laboratory did not report TICs present in the samples reanalyzed.	····
9) A peak within the approximate retention time of Chloromethane was present in	all samples, but the
laboratory did not identify it as either a TIC or a TCL.	
10) Neither a field blank nor a field duplicate was performed with this batch of same	ples.
11) Two samples with the sample number GTB072689002 and two samples with the	ne sample number
GTB072689002RE were submitted in this batch. The samples were distinguished from	each other on the Results
Summary Tables by the Laboratory ID number.	
12) Most samples were reanalyzed due to numerous QC problems. Both the reanal	ysis and the original sample
result were reported on the Results Summary Table since both analyses of the samples	had extensive QC problems.
Note: Data Summary Tables are attached.	
	// 07 0
Lisa Contreras - Heneller Reviewer Signature	$\frac{4-27-90}{\text{Date}}$
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TABLE #: 8907L171

SITE NAME: 881 Hillside CLP VOLATILE ORGANIC ANALYSIS:

Low Water

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## **ANALYTICAL RESULTS (ppb)**

Sample Location Sample Number Sampling Date Remarks		VBLK136 Method Blank	G02870789002 7/26/89	G04670789002 7/26/89	G06870789002 7/26/89	VBLK137 Method Blank	G02870789002RE GS4870789002 7/26/89 7/26/89	GS4870789002 7/26/89	G04670789002RE 7/26/89 Reanalysis	G04670789002RE G06870789002RE GTB072589002 7/26/89 7/26/89 7/25/89 Reanalysis Trip Blank
Volatile	CRQL	DQ	DO .	DQ .	DQ	Do	DQ	DQ	DO .	
Chloromethane	10		10 W A	10 W A	10 W A		٤	٤	٤	
Bromomethane	10		٤	٤	1 1		10 W A		10 W A	
Vinyl chloride	10		٤					4 1		
Chloroethane	10			10 W A	10 W A					
Methylene chloride	5	9 ppb	5 W A	-		8 ppb		5 W A		
Acetone	10	11 ppb		130 J A		4 ppb	10 W A	٤	10 W A	
Carbon disuffide	5	2 ppb	1	5 W A				ٔے		
1,1-Dichloroethene	5		٤	2 J A	5 W A				1 J A	
1,1-Dichloroethane	5		٤	٤				٤	٤	
1,2-Dichloroethene (Total)	5		5 W A	5 W A	5 W A				5 W A	
Chloroform	5		5 W A	-	5 W A			ñ	ſ	
1,2-Dichloroethane	5		5 W A	5 W A			5 W A	د	٤	
2-Butanone	10			_	10 U R		10 U R	┌	10 U R	
1,1,1-Trichloroethane	5		5 W A	7 J A	2 J A		5 W A		4 J A	
Carbon tetrachloride	5			36 J A	5 W A		5 W A	5 W A	29 J A	5
Vinyl acetate	10		10 W A	10 W A			10 W A	10 W A	10 W A	ō
Bromodichloromethane	5		5 W A	5 W A	5 W A		5 W A	5 W A	5 W A	
1,2-Dichloropropane	<b>σ</b>		٤	٤	5 W A		5 W A	5 W A	5 W A	
cis-1,3-Dichloropropene	ڻ ت		٤	5 W A	5 W A		5 W A		5 W A	
Trichloroethene	5			180 J A	6 J A		5 W A		180 J A	
Dibromochloromethane	5			5 W A	5 W A		5 W A	5 W A	5 W A	
1,1,2-Trichloroethane	5			5 W A	5 W A		5 W A	5 W A	5 W A	
Benzene	5			5 W A	5 W A		5 W A	5 W A	5 W A	
trans-1,3-Dichloropropene	5		5 W A	5 W A	5 W A		5 W A		5 W A	
Bromoform	5		5 W A	5 W A	5 W A		5 W A	٤	5 W A	
4-Methyl-2-pentanone	10		10 U R	10 U R				c	10 U R	10
2-Hexanone	10		10 W A	10 W A	10 W A			٤	10 W A	
Tetrachloroethene	5		5 W A	A re	5 W A			5 W A	10 J A	
1,1,2,2-Tetrachloroethane	5			5 W A	5 W A			5 W A	5 W A	
Toluene	5		5 W A	3 J A	5 W A		٤	٤	5 W A	
Chlorobenzene	5		5 W A	5 W A	5 W A		٤			
Ethylbenzene	5		5 W A	5 W A	5 W A				٤	
Styrene	5		5 W A	5 W A	5 W A		5 W A	5 W A		
Xylenes (Total)	5		5 W A	5 W A	5 W A		5 W A	5 W A	5 W A	Γ
Total Organic							)	)	_	
Concentration (ppb)		23	0	505	8	12	0	မ	229	
Undicates the compound was not detected above the Required Quantitation Limit.	was not detec	ted above the Req	uired Quantitation L	Jmit.				V Valid	ualitier	
E Exceeds calibration range, dilute & reanalyze.	e, dilute & rea	nalyze.	9						Acceptable with qualifications	ž
굣	Jantitation Lin	nit in Micrograms p	ær Liter (ug/L), Part	s per billion (ppb).				R Rejected	<u>a</u>	4741 /4/ 40
									_	7

Indicates the compound was not detected above the Required Quantitation Limit.

Quantitation is approximate due to limitations identified during the quality control review.

Exceeds calibration range, dilute & reanalyze.

CRQL Contract Required Quantitation Limit in Micrograms per Liter (ug/L), Parts per billion (ppb).

TABLE #: 8907L171 881 Hillside

SITE NAME: 881 Hillside CLP VOLATILE ORGANIC ANALYSIS:

Low Water

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## ANALYTICAL RESULTS (ppb)

U Indicates the compound was not detected above the Required Quantitation Limit.	Concentration (ppb)	Total Organic	Xylenes (Total)	Styrene	Ethylbenzene	Chlorobenzene	Toluene	1,1,2,2-Tetrachioroethane	Tetrachloroethene	2-Hexanone	4-Methyl-2-pentanone	Bromoform	trans-1,3-Dichloropropene	Benzene	1,1,2-Trichloroethane	Dibromochloromethane	Trichloroethene	cis-1,3-Dichloropropene	1,2-Dichloropropane	Bromodichloromethane	Vinyl acetate	Carbon tetrachloride	1,1,1-Trichloroethane	2-Butanone	1,2-Dichloroethane	Chloroform	1,2-Dichloroethene (Total)	1,1-Dichloroethane	1,1-Dichloroethene	Carbon disuffide	Acetone	Methylene chloride	Chloroethane	Vinyl chloride	Bromomethane	Chloromethane	Compound	Volatile	Remarks	Sampling Date	Sample Number	Sample Location
as not detected			5	5	5	5	5	5	5	10	10	5	5	5	5	5	5	5	5	5	10	5	5	10	5	5	5	5	5	თ	10	5	10	10	10	10	ug/L (ppb)	CROL				
led above the Rec	16		2 ppb	1 ppb																											6 ppb	7 ppb					DQ.		Method Blank		VBLK138	
uired Quantitation L	12		5 W A	5 W A	5 W A	5 W A	1 5 7	5 W A	١٤	10 U R	=	5 W A	5 W A		5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	10 W A	5 W A	5 W A	10 U R	3 J A	5 W A	, ,	5 W A	5 W A	8 J A	15 W A	11 W A	10 W A	10 W A	10 W A		DQ		Reanalysis	7/26/89	GS4870789002RE	
imit.	2		5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	,	10 U R	c	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	10 W A	5 W A	5 W A	10 U R	5 W A	5 W A	5 W A	5 W A	5 W A	2 J A		5 W A		10 W A	10 W A	٤	DQ			7/25/89	G59860789002	
	1		5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	10 ∪ R	c	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	10 W A	٤	5 W A	c	5 W A	5 W A	5 W A	5 W A	5 W A	1 J A	٤		10 W A	10 W A	10 W A	٤	Dα		Reanalysis	7/25/89	G59860789002RE G48870789002	
	-1		5 W A	8 W 8	5 W A	5 W A	5 W A	5 W A	5 W A	10 U R	10 U R	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	s W A	10 W A	5 W A	5 W A	10 U R	_ 1	5 W A	5 W A	5 W A	5 W A	1 J A	- 1	5 W A	10 W A		10 W A	10 W A	DQ			7/25/89	G48870789002	
	1		5 W A		5 W A			5 W A	5 W A				5 W A			5 W A											5 W A	5 W A		1 J A		5 W A			10 W A	٤	DΩ		Reanalysis	7/25/89	G48870789002REGTB072689002	
DQ Data Qualifier	20		5 W A		5 W A				5 W A	10 U R	c		5 W A						5 W A			5 W A			5 W A			5 W A	5 W A		10 W A	5 W A			10 W A	٤	8		Trip Blank	7/26/89	GTB072689002	AH8708
<b>Jalifier</b>	2		5 W A	8 W 8	5 W A		5 W A	5 W A		10 U R	10 U R	5 W A	5 W A	5 W A	5 W A	5 W A	8 W 8	5 W A	5 W A	8 W 8	10 W A	5 W A	5 W A	10 U R	5 W A	5 W A	5 W A	5 W A		2 J A		5 W A				٤	DΩ		Trip Blank	7/26/89	GTB072689002	AH8713
	-		٤	٤	5 W A	٤		٤		10 U R		5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	10 W A	5 W A	5 W A	10 U R	5 W A	٤	5 W A	5 W A			10 W A		10 W A		10 W A	٤	B			7/26/89	H072689001	
	_				5 W A	i I		5 W A		10 U R	10 U R	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	5 W A	10 W A	5 W A	5 W A	10 U R	5 W A	5 W A	5 W A	5 W A	5 W A	1 c A	10 W A	5 W A	10 W A	10 W A	10 W A	٤	8			7/26/89	G53870789002	

Acceptable with qualifications

J Quantitation is approximate due to limitations identified during the quality control review.
 E Exceeds calibration range, dilute & reanalyze.
 CROL Contract Required Quantitation Limit in Micrograms per Liter (ug/L), Parts per billion (ppb).

TABLE #: 8907L171

SITE NAME: 881 Hillside

CLP VOLATILE ORGANIC ANALYSIS:

Low Water

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## **ANALYTICAL RESULTS (ppb)**

Sample Location					AH8806	AH8807					
Sample Number	VBLK139		H072689001RE	G53870789002RE	G53870789002RE GTB072689002RE	GTB072689002RE					
Sampling Date			_	7/26/89	7/26/89	7/26/89					
Remarks	Щ.	Method Blank F	sis	sis	Reanalysis	Reanalysis					
	CROL										
	ug/L (ppp)	2	=	=	= _	=					
Choromethane	5 6		= 2		=   E	5 5					
profiteriale	5 2		:   8		٤	:   8					
Vinyl chloride	10		٤	٤	٤	اع					
Chloroethane	ō				10 W A						
Methylene chloride	5	8 ppb		5 W A	9 W A	6 W A					
Acetone	10	10 ppb	٤	10 W A		٤					
Carbon disuffide	5		1 J A	1 2 2	3 J A	2 J A					
1,1-Dichloroethene	5		5 W A	5 W A	8 W 8	٤					
1,1-Dichloroethane	5			٤		ŀ					
1,2-Dichloroethene (Total)	σı		5 W A	٤		٤					
Chloroform	5			٤	5 W A						
1,2-Dichloroethane	5		5 W A			8 W 8					
2-Butanone	10		c	10 U R	_	10 U R			-		
1,1,1-Trichloroethane	5		٤	5 W A		5 W A					
Carbon tetrachloride	5		5 W A	٤		5 W A					
Vinyl acetate	10		٤	10 W A	10 W A	10 W A					
Bromodichloromethane	5		5 W A	1	5 W A	5 W A					
1,2-Dichloropropane	5		5 W A	5 W A	5 W A	5 W A					
cis-1,3-Dichloropropene	5		5 W A		٤	5 W A					
Trichloroethene	5		٤	٤	. 1	5 W A					
Dibromochloromethane	5		5 W A			5 W A					
1,1,2-Trichloroethane	5		5 W A	5 W A	5 W A	5 W A					
Benzene	5		5 W A	5 W A	5 W A	v m s					
trans-1,3-Dichloropropene	5		1		1	5 W A					
Bromoform	υı		5 W A	5 W A	٤	5 W A					
4-Methyl-2-pentanone	10		10 U R	10 U R	10 U R	10 U R					
2-Hexanone	10		10 W A	10 W A	10 W A	10 W A					
Tetrachloroethene	ហ		5 W A	1 J A	5 W A	V M 5					
1,1,2,2-Tetrachloroethane	5		5 W A	5 W A	5 W A	5 W A					
Toluene	თ		5 W A	5 W A	5 W A	5 W A					
Chlorobenzene	5		5 W A	5 W A	5 W A	5 W A					
Ethylbenzene	თ		5 W A	5 W A	5 W A	5 W A					
Styrene	σı		5 W A	5 W A	5 W A	5 W A					
Xylenes (Total)	5		5 W A	5 W A	5 W A	5 W A					
Total Organic											
Concentration (ppb)		18		2	3	2					
U Indicates the compound was not detected above the Required Quantitation Limit.	not detected abo	ove the Requir	ed Quantitation Lin	nit.			0	DQ Data Qualifier	alifier		
_	e to limitations	identified durir	g the quality contr	ol review.			<				
Exceeds calibration range, dilute & reanalyze	ute & reanalyze	•					• >		Acceptable with qualifications	8	
CROL Contract Required Quantitation Limit in Micrograms per Liter (ug/L), Parts per billion (ppb).	tation Limit in M	icrograms per	Liter (ug/L), Parts	per billion (ppb).			Ð	Rejected		4741 /4/40	

Indicates the compound was not detected above the Hequired Quantifation Limit.

Quantitation is approximate due to limitations identified during the quality control review.

Exceeds calibration range, dilute & reanalyze.

CRÔL Contract Required Quantitation Limit in Micrograms per Liter (ug/L), Parts per billion (ppb).